

### **AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows:

#### **LISTING OF CLAIMS:**

Claim 1. (Currently amended) A vector or plasmid comprising an isolated DNA encoding vitamin B<sub>6</sub> phosphate phosphatase selected from the group consisting of:

- (a) a DNA sequence of SEQ ID NO:9;
- (b) a DNA sequence encoding a polypeptide having vitamin B<sub>6</sub> phosphate phosphatase activity, which and hybridizes under stringent hybridization and stringent washing conditions to the DNA sequence defined in (a) or a fragment thereof, wherein the stringent hybridization and stringent washing conditions comprise hybridizing in 5xSSC, 0.3% SDS, 2% blocking reagent, 0.1% N-lauroylsarcosine, 50% formamide overnight at 42° C and washing twice in 2xSSC, 0.1% SDS at room temperature for 5 minutes and then washing twice in 0.1xSSC, 0.1% SDS at 50° C to 68° C for 15 minutes;
- (c) a DNA sequence encoding a polypeptide having vitamin B<sub>6</sub> phosphate phosphatase activity, wherein said polypeptide is at least 95% ~~70%~~ identical to the amino acid sequence of SEQ ID NO:10;
- (d) a DNA sequence encoding a polypeptide having vitamin B<sub>6</sub> phosphate phosphatase activity and is at least 95% ~~70%~~ identical to the DNA sequence of SEQ ID NO:9; and
- (e) a degenerate DNA sequence of any one of (a) to (c).

Claim 2. (Cancelled).

Claim 3. (Withdrawn) A polypeptide encoded by the isolated DNA of claim 1.

Claim 4. (Currently amended) A recombinant microorganism of the genus *Sinorhizobium* or *Escherichia*, capable of producing vitamin B<sub>6</sub> from vitamin B<sub>6</sub> phosphate, wherein said microorganism is transformed with a DNA encoding vitamin B<sub>6</sub> phosphate phosphatase selected from the group consisting of:

(a) a DNA sequence of SEQ ID NO:9;

(b) a DNA sequence encoding a polypeptide having vitamin B<sub>6</sub> phosphate phosphatase activity, which and hybridizes under stringent hybridization and stringent washing conditions to the DNA sequence defined in (a) or a fragment thereof, wherein the stringent hybridization and stringent washing conditions comprise hybridizing in 5xSSC, 0.3% SDS, 2% blocking reagent, 0.1% N-lauroylsarcosine, 50% formamide overnight at 42° C and washing twice in 2xSSC, 0.1% SDS at room temperature for 5 minutes and then washing twice in 0.1xSSC, 0.1% SDS at 50° C to 68° C for 15 minutes;

(c) a DNA sequence encoding a polypeptide having vitamin B<sub>6</sub> phosphate phosphatase activity, wherein said polypeptide is at least 95% ~~70%~~ identical to the amino acid sequence of SEQ ID NO:10;

(d) a DNA sequence encoding a polypeptide having vitamin B<sub>6</sub> phosphate phosphatase activity and is at least 95% ~~70%~~ identical to the DNA sequence of SEQ ID NO:9; and

(e) a degenerate DNA sequence of any one of (a) to (c).

Claim 5. (Original) The microorganism of claim 4, wherein said microorganism is *Sinorhizobium meliloti* IFO 14782 having pVKPtacpdxP (*S. meliloti* IFO 14782/pVKPtacpdxP).

Claim 6. (Original) The microorganism of claim 4, wherein said microorganism is *Escherichia coli* JM109 having pKKpdxP (*E. coli* JM109/pKKpdxP).

Claim 7. (Original) A process for preparing a cell-free extract having vitamin B<sub>6</sub> phosphate phosphatase activity, which comprises cultivating the microorganism according to claim 4 wherein the microorganism is cultivated under conditions in a medium containing an assimilable carbon source, a digestible nitrogen source, inorganic salts, and other nutrients necessary for the growth of the microorganism at a pH value of about 5.0 to about 9.0, at a temperature about 5°C to about 45°C, and for 1 day to about 15 days under aerobic conditions, and disrupting cells of the microorganism.

Claim 8. (Withdrawn) The process for producing vitamin B<sub>6</sub> from vitamin B<sub>6</sub> phosphate which comprises contacting vitamin B<sub>6</sub> phosphate with the cell-free extract of microorganism according to claim 4 in a reaction mixture, and recovering the resulting vitamin B<sub>6</sub> from the reaction mixture.

Claim 9. (Previously presented) The process according to claim 7, wherein said microorganism is *Sinorhizobium meliloti* IFO 14782 having pVKPtacpdxP (*S. meliloti* IFO 14782/pVKPtacpdxP).

Claim 10. (Previously presented) The process according to claim 7, wherein said microorganism is *Escherichia coli* JM 109 having pKKpdxP (*E. coli* JM 109/pKKpdxP).

Claim 11. (Previously presented) A recombinant microorganism of the genus *Sinorhizobium* or *Escherichia*, capable of producing vitamin B<sub>6</sub> from vitamin B<sub>6</sub> phosphate, wherein said microorganism is transformed with the vector or plasmid of claim 1.

Claim 12. (Withdrawn) The process according to claim 8, wherein said microorganism is *Sinorhizobium meliloti* IFO 14782 having pVKPtacpdxP (*S. meliloti* IFO 14782/pvKPtacpdxP).

Claim 13. (Withdrawn) The process according to claim 8, wherein said microorganism is *Escherichia coli* JM109 having pKKpdxP (*E. coli*. JM 109/pKKpdxP).

Claim 14. (Previously presented) An isolated polynucleotide comprising a polynucleotide sequence of SEQ ID NO:9.

Claim 15. (Previously presented) An isolated polynucleotide comprising a polynucleotide sequence that encodes the polypeptide sequence of SEQ ID NO:10.